

Under the Paperwork Reduction Act of 1996, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/06 (11-99)

Approved for use through 10/31/02. OMB 0331-0031

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

REQUEST FOR ACCESS OF ABANDONED APPLICATION UNDER 37 CFR 1.14(a)

RECEIVED

NOV 16 2000

File Information Unit

In re Application of

Bratten

Application Number

07/813761

Filed

12/24/91

Group Art Unit

Examiner

Paper No. *#20*

Assistant Commissioner for Patents
Washington, DC 20231

I hereby request access under 37 CFR 1.14(a)(3)(iv) to the application file record of the above-identified ABANDONED application, which is: (CHECK ONE)

☐ (A) referred to in United States Patent Number *5624579* column _____

☐ (B) referred to in an application that is open to public inspection as set forth in 37 CFR 1.11, i.e., Application No. _____ filed _____ on page _____ of paper number _____

☐ (C) an application that claims the benefit of the filing date of an application that is open to public inspection, i.e., Application No. _____ filed _____ or

☐ (D) an application in which the applicant has filed an authorization to lay open the complete application to the public.

Please direct any correspondence concerning this request to the following address:

Cantwell & Passton

Signature

11-16-00

Date

Typed or printed name

FOR PTO USE ONLY

Approved by: *[Signature]*

(Initials)

Unit: *[Signature]*



US005624579A

United States Patent [19]**Bratten**[11] **Patent Number:** **5,624,579**[45] **Date of Patent:** **Apr. 29, 1997**

[54] **METHOD OF SIMULTANEOUSLY INDEXING
PERMANENT AND DISPOSABLE FILTER
MEDIA IN A VACUUM FILTER APPARATUS**

[76] **Inventor:** **Jack R. Bratten**, 5970 St. James Dr.,
West Bloomfield, Mich. 48322

[21] **Appl. No.:** **535,546**

[22] **Filed:** **Sep. 28, 1995**

Related U.S. Application Data

[62] **Division of Ser. No. 813,161, Dec. 24, 1991, abandoned.**

[51] **Int. Cl.⁶** **B01D 37/00; B01D 33/00**

[52] **U.S. Cl.** **210/783; 210/387; 210/400;
210/401; 210/406**

[58] **Field of Search** **210/387, 400,
210/406, 401, 783**

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,087,620 4/1963 Hirs .
3,221,885 12/1965 Hirs .
3,741,389 6/1973 Anderson 210/387
4,137,062 1/1979 Mullerheim et al. 210/387

Primary Examiner—Robert J. Popovics
Attorney, Agent, or Firm—John R. Benefiel

[57] **ABSTRACT**

A filter apparatus for removing solids from a liquid in which chain conveyor loops frictionally engage a segment of a continuous permanent filter media belt extending across the bottom of a tank over a perforate section through which liquid is withdrawn to be filtered. The chain conveyor loops and permanent filter media follow divergent paths after exiting the tank, the chain loops returning over the top of the tank, the permanent filter media belt returning beneath the tank to a point of entrance at the top of a rear tank wall. A disposable media belt is optionally introduced at the point the permanent media belt and chain conveyor loops reconverge at the entrance point of the tank at the rear wall. The chain conveyor loops are indexed periodically and frictionally engage the permanent media belt (and disposable media, if used) in the segment extending across the tank bottom to cause the belt media to likewise be indexed.

1 Claim, 2 Drawing Sheets

